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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/519,469	12/27/2004	Seung-Woo Kim	2400/2	2679	
27774 MAYER & W	7590 01/31/200	77	EXAMINER		
251 NORTH AVENUE WEST			RICHEY, SCOTT M		
2ND FLOOR WESTFIELD,	NJ 07090		ART UNIT PAPER NUMBER 2877		
·· 20111222,					
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	ONTHS	01/31/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

· · · · · · · · · · · · · · · · · · ·		Application No.	Applicant(s)				
Office Action Summary		10/519,469	KIM ET AL.				
		Examiner	Art Unit				
		Scott M. Richey	2877				
Period for	- The MAILING DATE of this communication a r Reply	appears on the cover sheet	with the correspondence a	ddress			
A SHO WHIC - Exten- after S - If NO - Failuri Any re	DRTENED STATUTORY PERIOD FOR REF HEVER IS LONGER, FROM THE MAILING sions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory peri- e to reply within the set or extended period for reply will, by sta- sply received by the Office later than three months after the mad d patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU 1.136(a). In no event, however, may od will apply and will expire SIX (6) N tute, cause the application to become	NICATION. To a reply be timely filed SONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
Status							
2a) <u></u> 3) <u></u>	Responsive to communication(s) filed on <u>18</u> This action is FINAL . 2b) To a since this application is in condition for allow closed in accordance with the practice unde	his action is non-final. wance except for formal m	· •	e merits is			
Dispositio	on of Claims			-			
5)	Claim(s) 1-7 is/are pending in the application la) Of the above claim(s) is/are with definition claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and con Papers	rawn from consideration.					
9)⊡ 7	he specification is objected to by the Exami	iner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119			·			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
	of References Cited (PTO-892)		w Summary (PTO-413)				
3) 🛛 Inform	of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date 8/18/2006.	_	lo(s)/Mail Date of Informal Patent Application				

DETAILED ACTION

Oath/Declaration

1. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: It does not identify the citizenship of each inventor.

Claim Objections

- 2. The claims are objected to because they include reference characters, which are not enclosed within parentheses.
- 3. Reference characters corresponding to elements recited in the detailed description of the drawings and used in conjunction with the recitation of the same element or group of elements in the claims should be enclosed within parentheses so as to avoid confusion with other numbers or characters which may appear in the claims. See MPEP § 608.01 (m).
- 4. Claims 1-7 are objected to because of the following informalities: Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. See 37 CFR 1.75 (i) or MPEP 608.01 (i). Appropriate correction is required.

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5. Claim 3 objected to because of the following informalities: Claim 3 states, "n is the reflective index of air," but should state --n is the refractive index of air--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. As indicated by the preamble in independent claims 1 and 7, and as indicated by limitations in dependent claims 2-6, claims 1-7 are each directed to both a product and a process, which has been found to be ambiguous. *Ex parte Lyell*, 17 USPQ2d 1548 (Bd. Pat. App. & Inter. 1990).

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. Claims 1-7 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 1-7 are each directed to both a process and a product, overlapping two different statutory classes of invention. See MPEP 2173.05(p) II. Because it is unclear what the applicant is attempting to set forth as the metes and bounds of the patent protection desired, prior art cannot be applied.

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Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Regarding claims 1-3, Badami et al. (US 6,181,420 B1) may anticipate the applicant's claimed invention. Regarding claims 1-7, Sullivan et al. (US 7,009,710 B2), Reasenberg et al. (US 5,412,474), Ohtsuka (US 5,106,191) or Bockman (US 5,677,768) may anticipate the applicant's claimed invention.

- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott M. Richey whose telephone number is (571) 270-1296. The examiner can normally be reached on Monday Thursday, 8:00 17:00.
- 12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Toatley can be reached on (571) 272-2059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Supervision Haten Examiner